THE AMENDMENTS

In the Claims:

- 1. (Currently Amended) A method for discriminating p16^{INK4a} overexpressing metaplasias from p16^{INK4a} overexpressing neoplastic or dysplastic lesions in a uterine cervix sample in the course of cytological testing procedures comprising:
 - a. determining the presence or absence of cells overexpression of p16^{INK4a} in said sample;
 - b. determining the presence or absence of cells expressing at least one high risk
 HPV gene-product in said sample, wherein the high risk HPV gene-product is a polypeptide; and
 - c. assessing simultaneous presence of cells expressing the high risk HPV geneproduct and cells overexpressing p16^{INK4a}, or the presence of cells overexpressing p16^{INK4a} alone;
 - wherein d. characterizing the simultaneous presence of cells expressing the high risk HPV gene-product and cells overexpressing p16^{INK4a} is as indicative of neoplastic or dysplastic lesion, and
 - e. characterizing the presence of cells overexpressing p16^{INK4a} alone is as indicative of metaplasias.
- 2. (Cancelled)
- 3. (Previously Presented) The method according to claim 1, wherein the high risk HPV gene-product is encoded by the HPV E7 gene.
- 4. (Withdrawn-Previously Presented) The method according to claim 1, wherein the high risk HPV gene-product is encoded by HPV E2 and/or E6 genes.
- 5. (Withdrawn-Previously Presented) The method according to claim 1, wherein the high high risk HPV gene-product is encoded by HPV L1 and/or L2 genes.
- 6-10. (Cancelled)

- 11. (Previously Presented) The method according to claim 1, wherein the sample is a Pap smear or a cytological preparation of the cervix uteri.
- 12. (Previously Presented) The method according to claim 1, wherein the detection of the HPV gene-products and of p16^{INK4a} is performed using one or more probes specific for the HPV gene-products and p16^{INK4a}.
- 13. (Previously Presented) The method according to claim 12, wherein the probe is detectably labelled.
- 14. (Previously Presented) The method according to claim 13, wherein the label is selected from the group consisting of a radioisotope, a bioluminescent compound, a chemiluminescent compound, a fluorescent compound, a metal chelate, or an enzyme.
- 15. (Previously Presented) The method according to claim 12, wherein the probe is a polypeptide.
- 16. (Previously Presented) The method according to claim 15, wherein the probe is an antibody directed against a high risk HPV encoded gene-product or p16^{INK4a}.
- 17. (Original) The method according to claim 16, which comprises an immunocytochemical staining procedure.
- 18-21. (Cancelled)
- 22. (Previously Presented) The method according to Claim 15, wherein detection of the high-risk HPV gene-product and p16^{INK4a} is carried out simultaneously.
- 23. (Currently Amended) The method according to claim 1, wherein the high risk HPV gene-product is <u>a</u> gene-product of the cancer associated HPV subtypes HPV 16, 18, 31, 33, 35, 39, 45, 51, 52, 56 or 58.
- 24. (Previously Presented) The method according to claim 1, wherein overexpression of p16^{INK4a} and expression of at least one high risk HPV gene-product is simultaneous determined in at least one single cell.

25-26. (Cancelled)

27. (Currently Amended) The method according to Claim 1, wherein the presence or absence of cells overexpression of overexpressing p16^{INK4a} and the presence or absence of cells expressing the high risk HPV gene-product is determined on a slide preparation.